

This listing of claims will replace all prior versions, and listings, of claims in this application:

Listing of Claims:

1 (currently amended). An alkali-free glass consisting essentially of, in mass percent, 58-70% SiO_2 , 10-19% Al_2O_3 , 6.5-15% B_2O_3 , 0-2 0-1% MgO , 3-12% CaO , 0.1-2% BaO , 0-4% SrO , 0.1-6% $\text{BaO}+\text{SrO}$, 0-5% ZnO , 5-12% $\text{MgO}+\text{CaO}+\text{BaO}+\text{SrO}+\text{ZnO}$, 0-5% ZrO_2 , 0-5% TiO_2 , and 0-5% P_2O_5 , containing substantially no alkali metal oxide, being formed into a plate-like shape by the down-draw process, and having a density of $2.40\text{g}/\text{cm}^3$ or less, an average coefficient of thermal expansion of $25 \times 10^{-7}/^\circ\text{C}$ - $36 \times 10^{-7}/^\circ\text{C}$ within a temperature range between 30 and 380°C , and a strain point not lower than 640°C , in which ~~a ratio $(\text{CaO}+\text{BaO}+\text{SrO})/\text{Al}_2\text{O}_3$ falls within a range between 0.9 and 1.2 in mol ratio~~ the liquidus temperature is not higher than 1130°C , and the viscosity at the liquidus temperature is not lower than $10^{5.4}\text{dPa}\cdot\text{s}$.

2 (original). An alkali-free glass according to claim 1, wherein the ratio $(\text{BaO}+\text{SrO})/\text{BaO}$ falls within a range of 1.1-10 in mass ratio.

3 (canceled).

4 (original). An alkali-free glass according to claim 1, wherein the erosion of the alkali-free glass is not greater than 10 μm after treatment by a 10% HCl aqueous solution under the condition of 80°C and 24 hours and neither haze nor roughness of the alkali-free glass is confirmed by visual observation after treatment by a 10% HCl aqueous solution under the condition at 80°C and 3 hours.

5 (original). An alkali-free glass according to claim 1, wherein the erosion of the alkali-free glass is not greater than 0.8 μm after treatment by a 130 BHF solution under the condition of 20°C and 30 minutes and neither haze nor roughness of the alkali-free glass is confirmed by visual observation after treatment by a 63 BHF solution under the condition of 20°C and 30 minutes.

6 (original). An alkali-free glass according to claim 1, wherein the alkali-free glass has a specific modulus not smaller than 27.5 GPa/(g $\cdot\text{cm}^{-3}$).

7 (original). An alkali-free glass according to claim 1, wherein the alkali-free glass does not contain As_2O_3 but contains 0.5 - 3.0 wt% $\text{Sb}_2\text{O}_3 + \text{Sb}_2\text{O}_5 + \text{SnO}_2 + \text{Cl}$.

8 (canceled).

9 (original). An alkali-free glass according to claim 1, wherein the alkali-free glass consists essentially of, in mass percent, 60-68% SiO_2 , 12-18% Al_2O_3 , 7-12% B_2O_3 , 0-1% MgO , 4-10% CaO , 0.3-2% BaO , 0.1-2.7% SrO , 0.4% or more and less than 3% $\text{BaO}+\text{SrO}$, 0-0.9% ZnO , 5-12% $\text{MgO}+\text{CaO}+\text{BaO}+\text{SrO}+\text{ZnO}$, 0-1% ZrO_2 , 0-1% TiO_2 , and 0-1% P_2O_5 .

10 (currently amended). A glass plate formed by an alkali-free glass consisting essentially of, in mass percent, 58-70% SiO_2 , 10-19% Al_2O_3 , 6.5-15% B_2O_3 , ~~0-2~~ 0-1% MgO , 3-12% CaO , 0.1-2% BaO , 0-4% SrO , 0.1-6% $\text{BaO}+\text{SrO}$, 0-5% ZnO , 5-12% $\text{MgO}+\text{CaO}+\text{BaO}+\text{SrO}+\text{ZnO}$, 0-5% ZrO_2 , 0-5% TiO_2 , and 0-5% P_2O_5 , containing substantially no alkali metal oxide, being formed into a plate-like shape by the down-draw process and having a density of 2.40g/cm^3 or less, an average coefficient of thermal expansion of $25 \times 10^{-7}/^\circ\text{C}$ - $36 \times 10^{-7}/^\circ\text{C}$ within a temperature range between 30 and 380°C , and a strain point not lower than 640°C , in which ~~a ratio $(\text{CaO}+\text{BaO}+\text{SrO})/\text{Al}_2\text{O}_3$ falls within a range between 0.9 and 1.2 in mol ratio~~ the liquidus temperature is not higher than 1130°C , and the viscosity at the liquidus temperature is not lower than $10^{5.4}\text{dPa}\cdot\text{s}$.

11 (original). A glass plate according to claim 10, wherein the glass plate is used for a flat display.

12 (original). A glass plate according to claim 10, wherein the glass plate has a thickness of 0.6mm or less.

13 (original). A glass plate according to claim 10, wherein the alkali-free glass consists essentially of, in mass percent, 60-68% SiO_2 , 12-18% Al_2O_3 , 7-12% B_2O_3 , 0-1% MgO , 4-10% CaO , 0.3-2% BaO , 0.1-2.7% SrO , 0.4% or more and less than 3% $\text{BaO}+\text{SrO}$, 0-0.9% ZnO , 5-12% $\text{MgO}+\text{CaO}+\text{BaO}+\text{SrO}+\text{ZnO}$, 0-1% ZrO_2 , 0-1% TiO_2 , and 0-1% P_2O_5 .

14 (currently amended). A liquid crystal display comprising a glass plate formed by an alkali-free glass consisting essentially of, in mass percent, 58-70% SiO_2 , 10-19% Al_2O_3 , 6.5-15% B_2O_3 , 0-2% MgO , 3-12% CaO , 0.1-2% BaO , 0-4% SrO , 0.1-6% $\text{BaO}+\text{SrO}$, 0-5% ZnO , 5-12% $\text{MgO}+\text{CaO}+\text{BaO}+\text{SrO}+\text{ZnO}$, 0-5% ZrO_2 , 0-5% TiO_2 , and 0-5% P_2O_5 , containing substantially no alkali metal oxide, being formed into a plate-like shape by the down-draw process and having a density of $2.40\text{g}/\text{cm}^3$ or less, an average coefficient of thermal expansion of $25 \times 10^{-7}/^\circ\text{C}$ - $36 \times 10^{-7}/^\circ\text{C}$ within a temperature range between 30 and 380°C , and a strain point not lower than 640°C , in which a ~~ratio $(\text{CaO}+\text{BaO}+\text{SrO})/\text{Al}_2\text{O}_3$ falls within a range between 0.9 and 1.2~~ in mol ratio the liquidus temperature is not higher than 1130°C ,

and the viscosity at the liquidus temperature is not lower than $10^{5.4}$ dPa·s.

15 (original). A liquid crystal display according to claim 14, wherein the alkali-free glass consists essentially of, in mass percent, 60-68% SiO_2 , 12-18% Al_2O_3 , 7-12% B_2O_3 , 0-1% MgO , 4-10% CaO , 0.3-2% BaO , 0.1-2.7% SrO , 0.4% or more and less than 3% $\text{BaO}+\text{SrO}$, 0-0.9% ZnO , 5-12% $\text{MgO}+\text{CaO}+\text{BaO}+\text{SrO}+\text{ZnO}$, 0-1% ZrO_2 , 0-1% TiO_2 , and 0-1% P_2O_5 .

16 (original). A polycrystal silicon TFT liquid crystal display comprising a glass plate claimed in claim 10.